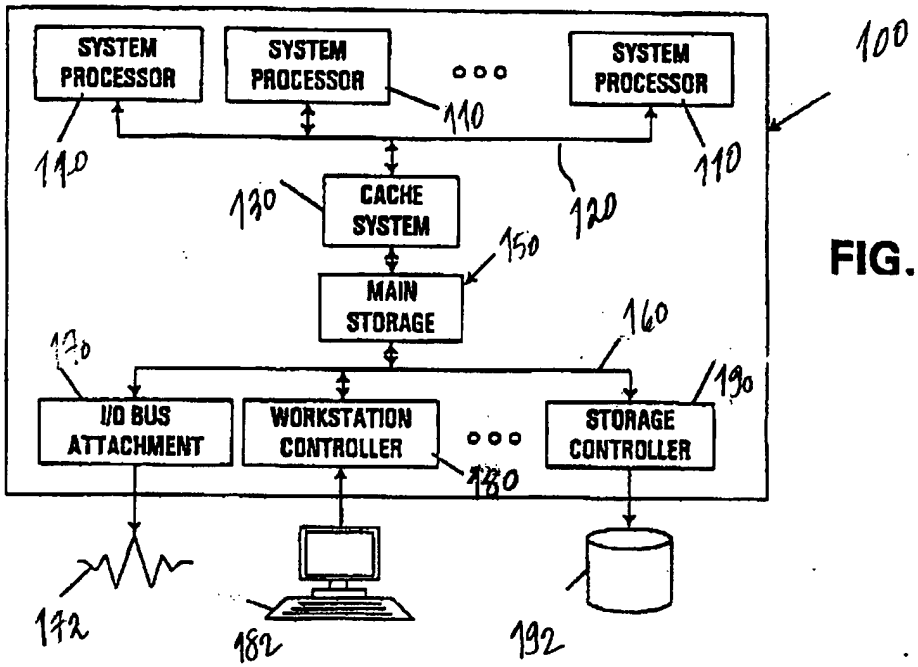


FIG. 1

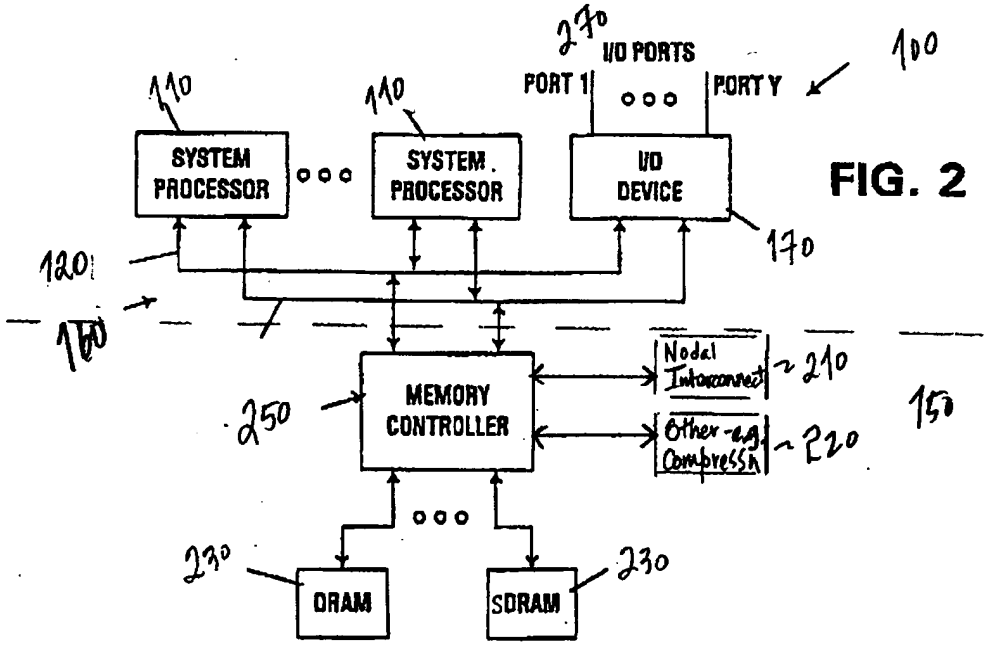
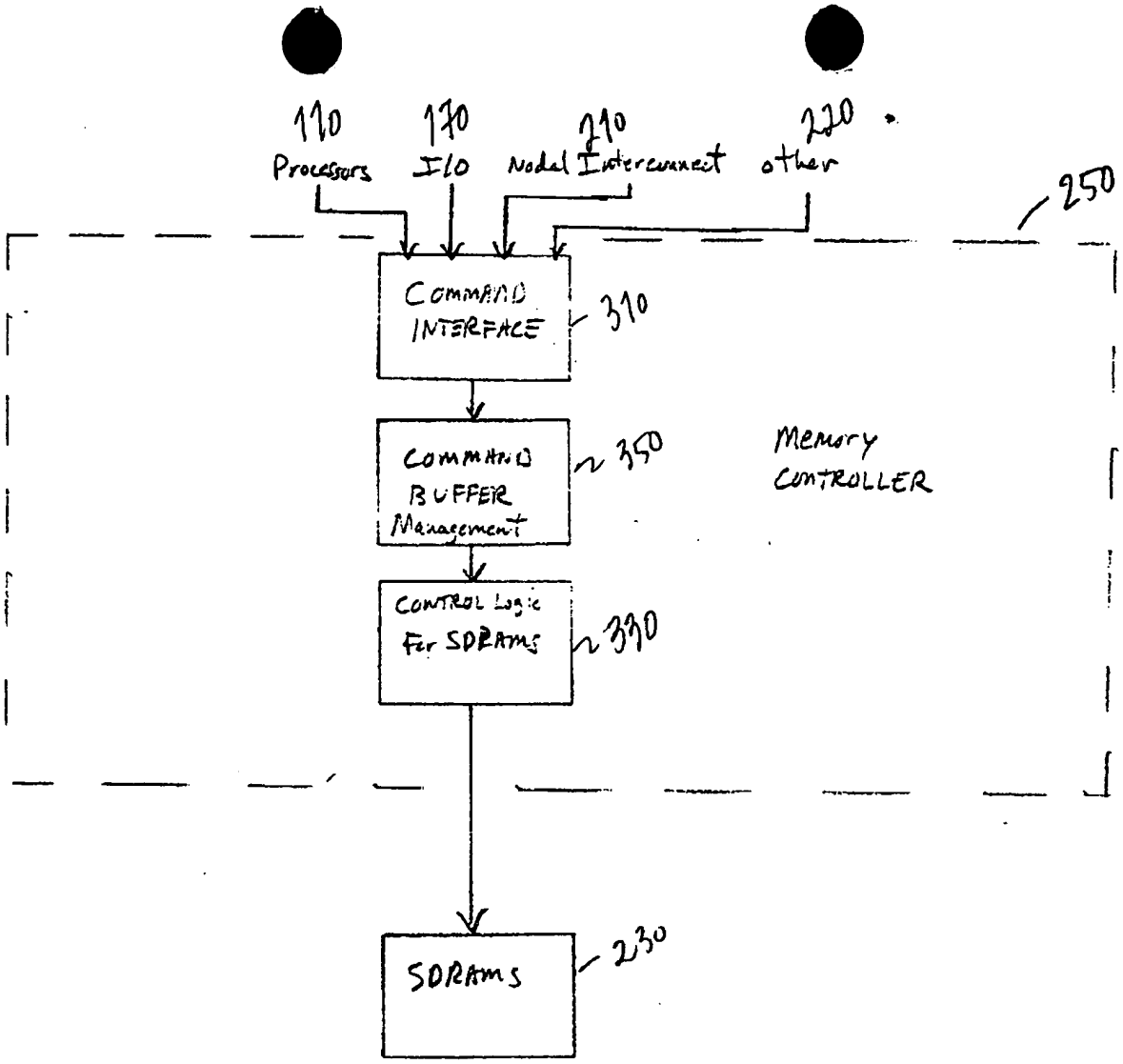


FIG. 2

R0999-080
Figures 1, 2



RO999-080
Figure 3

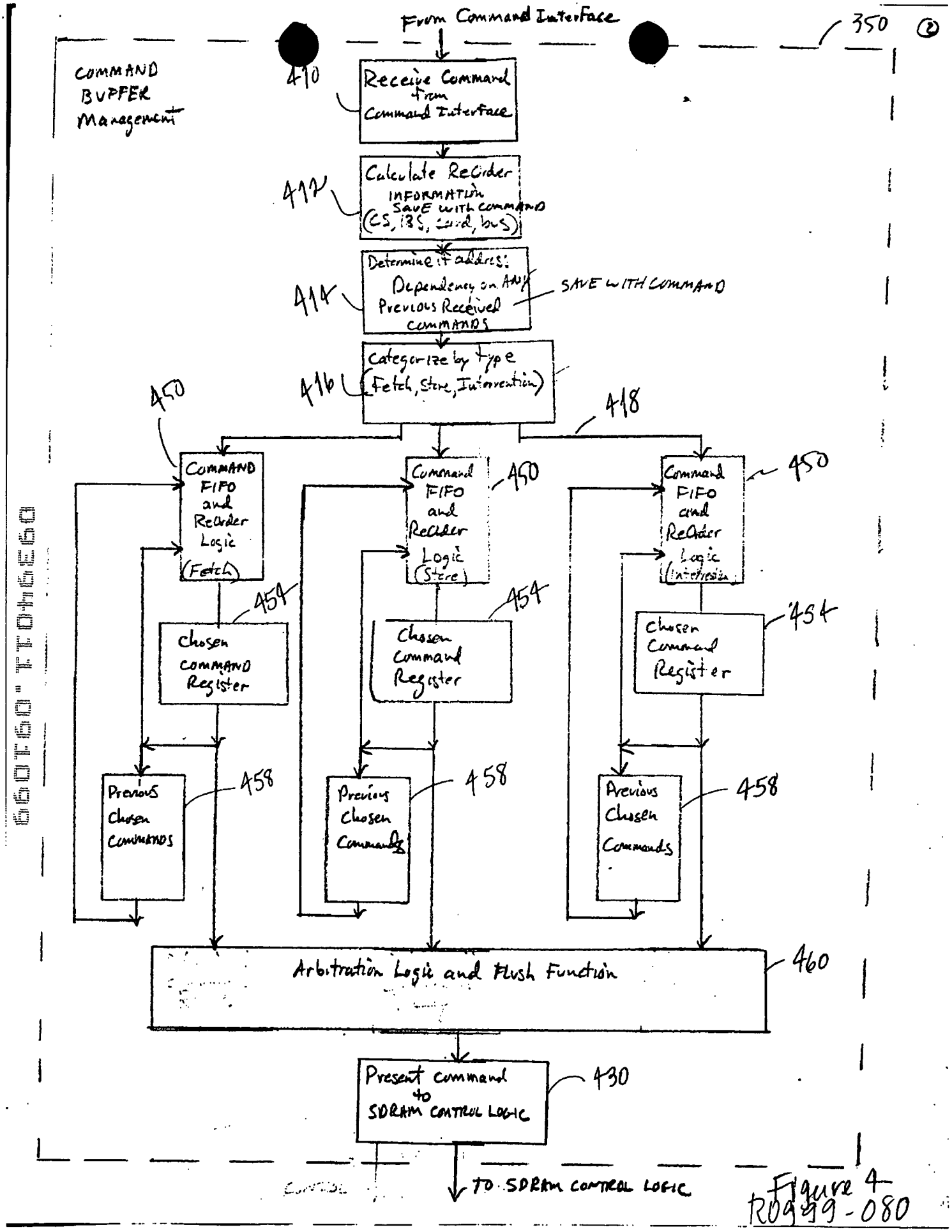


Figure 4
RO999-080

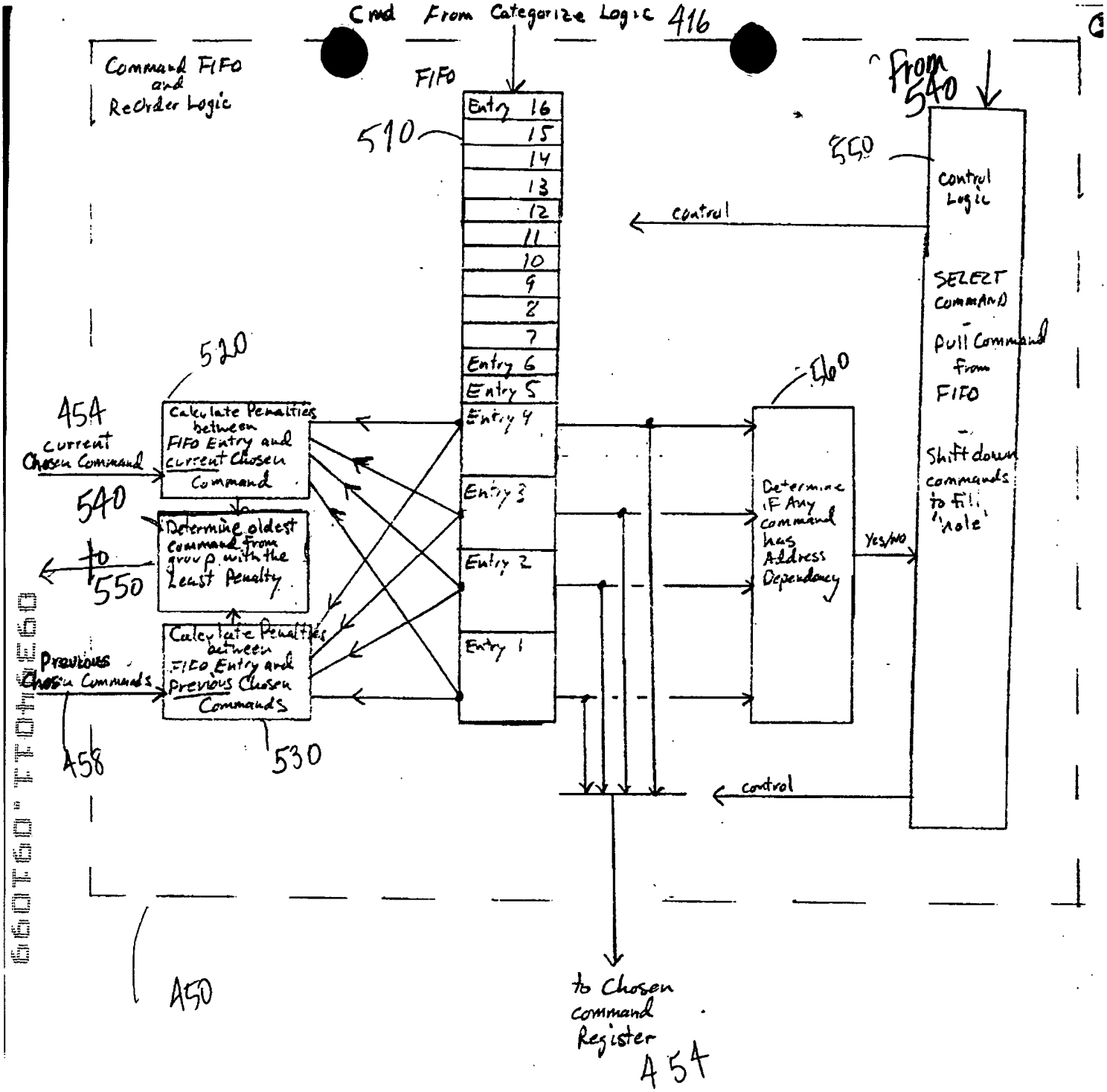


Figure 5
P20999-080

Command FIFO and ReOrdering — Flow Diagram

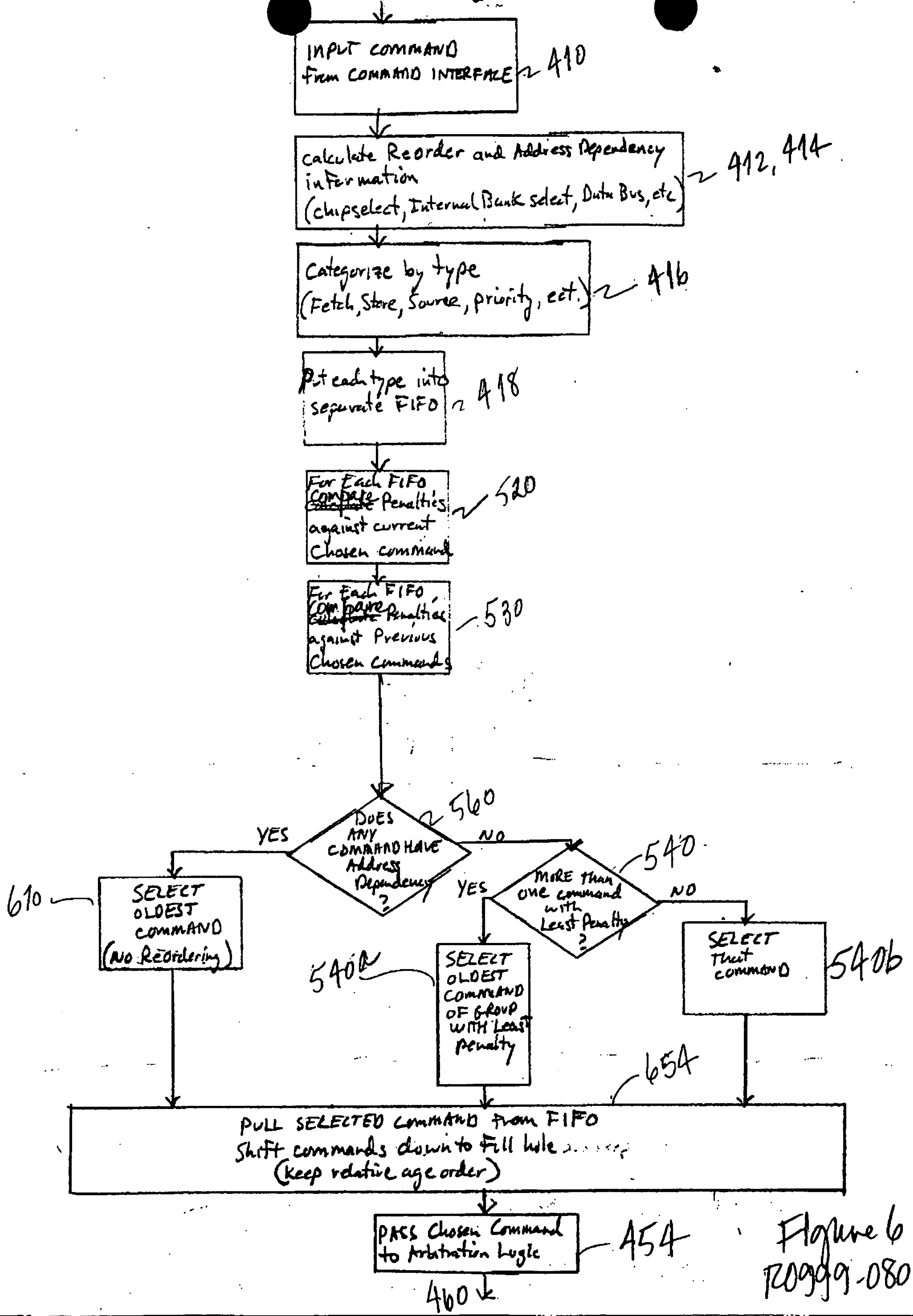


Figure 6
R0999-080

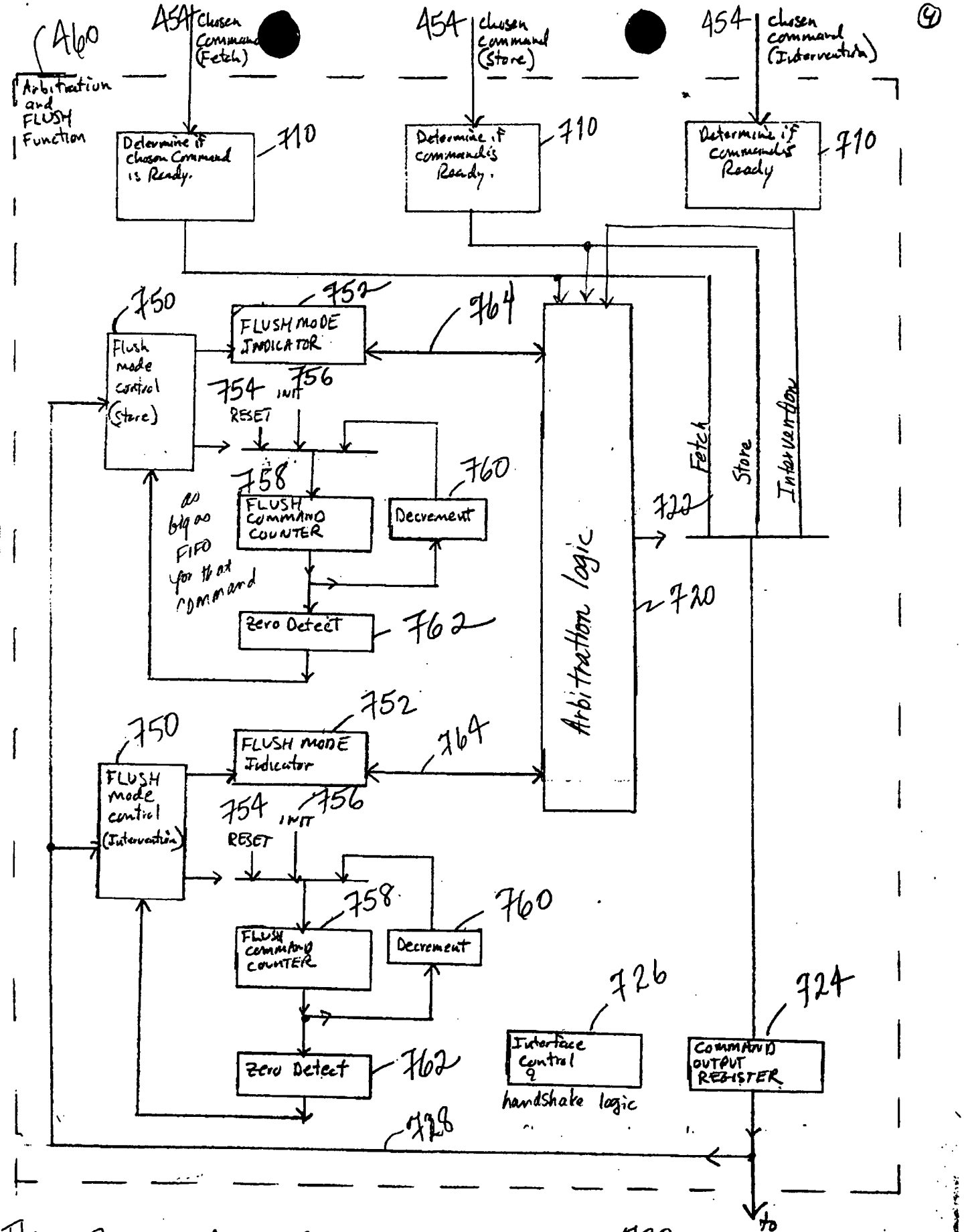
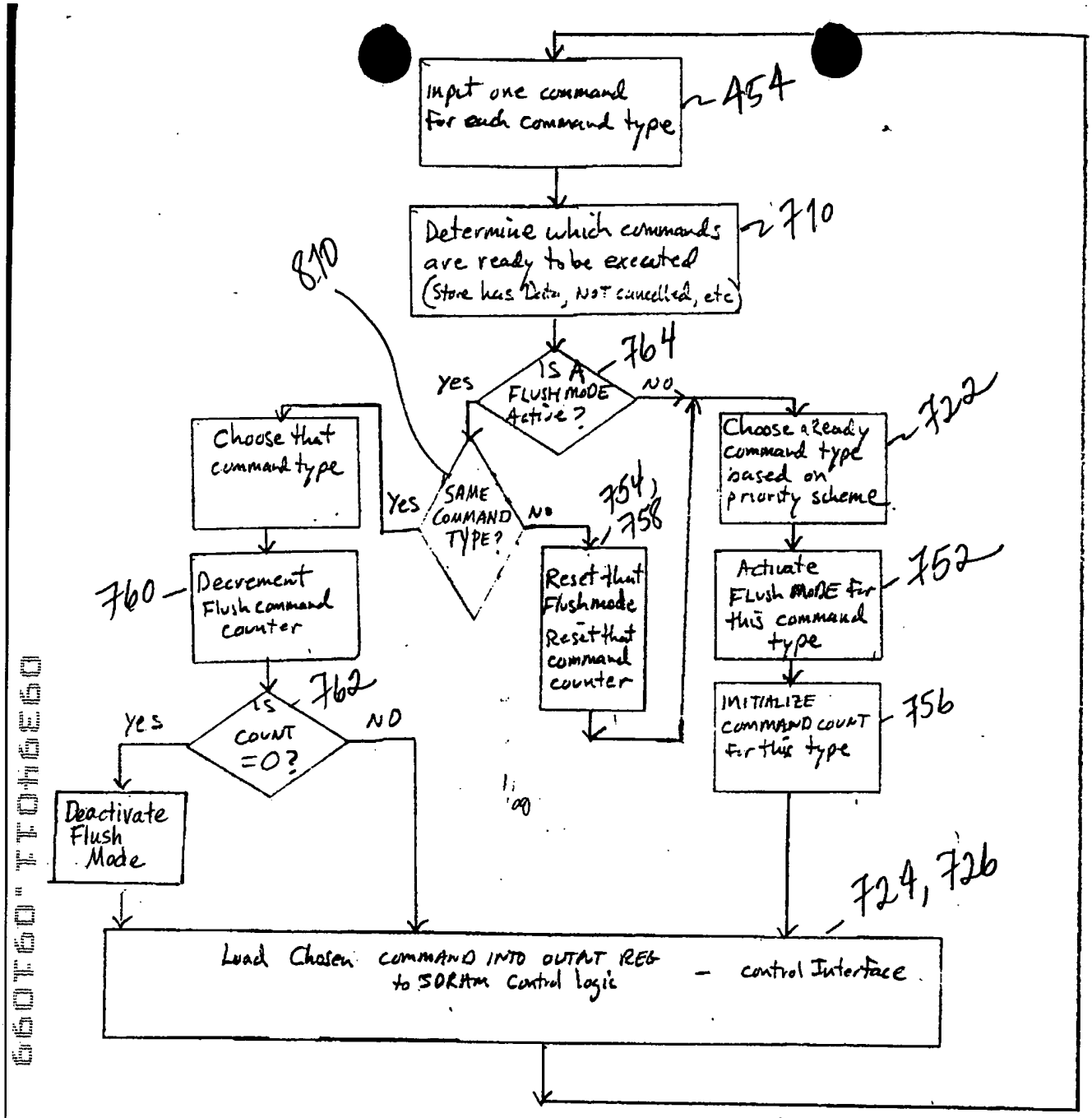


Figure 7 RO999-080



FLUSH Function and Arbitrate Logic - Flow Diagram

Figure 8 - TI0999-080

Possible Deadlock Condition - (Avoided by executing as FIFO)

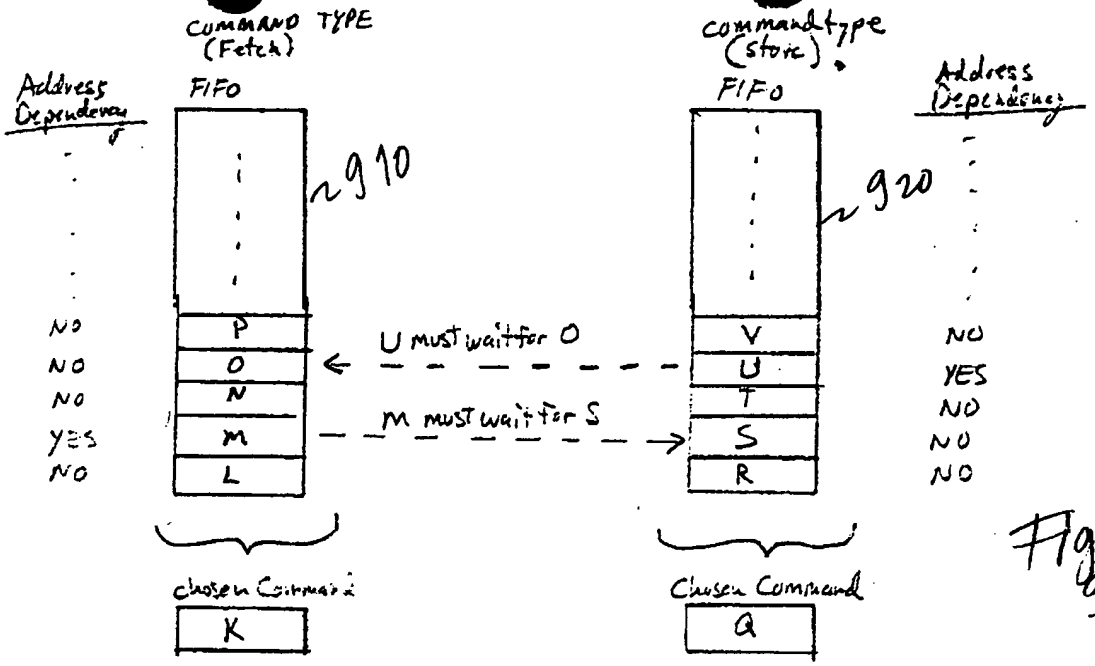


Figure 9b

- COMMAND U address is in same cacheline as command O, and was received after command O.
- COMMAND M address is in same cacheline as command S, and was received after command S.

* IF Commands in both FIFOs execute in order, then no deadlock.

Deadlock Condition - (Occured by ReOrdering)

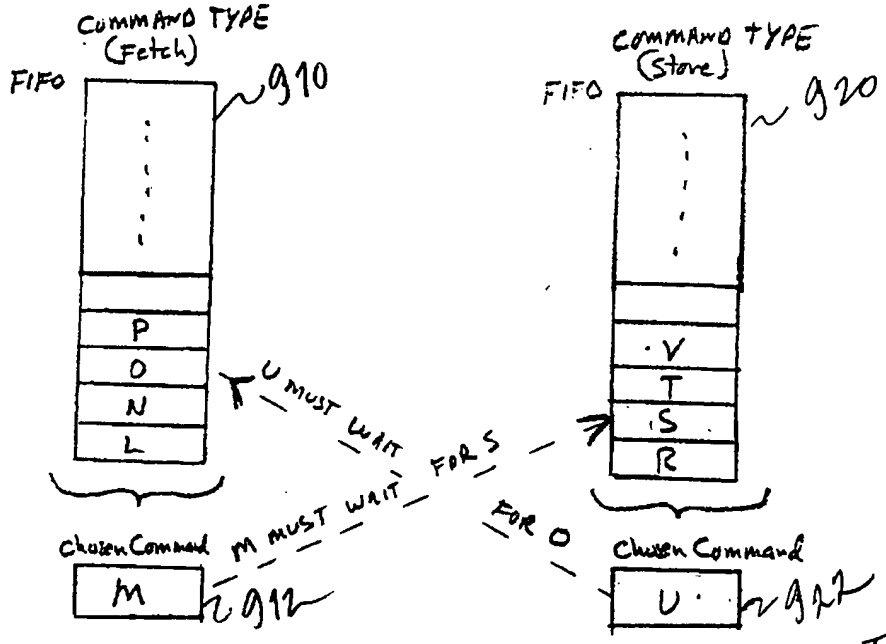


Figure 9a

* IF certain command chosen by ReOrder Logic, then deadlock

R0999-080

- Key idea is to not reorder if any command being considered has an address dependency